

# SVI<sup>®</sup> Stone Valve



## **BUTTERFLY** VALVES SERIES

API Double Flange Butterfly Valves Series

API Wafer Butterfly Valves Series

API Lug Butterfly Valves Series

DIN Double flange Butterfly Valves Series

DIN Wafer Butterfly Valves Series

DIN Lug Butterfly Valves Series

**STONE VALVE GROUP LIMITED**

# STONE VALVE GROUP LIMITED



## BRIEF INTRODUCTION

Established in 2002, STONE VALVE GROUP LIMITED Specializing in producing pipe butterfly valves which be used widely in Oil, Petroleum, Chemical, Gas, Water, etc., with about ten years of production experience and technical innovation We can provide complete pipe and flow control plans for users, our brand equals to excellent quality and reliable performance, the advanced production facilities and production organization and quality management system of our company have passed the approval ISO9001, and CE, etc. Our high performance butterfly are valves are so attractive for so many customers and end users during the past famous exhibitions outside of China.

Welcome to inspect us,

Welcome to choose our ball valves,

Welcome to be our agent in your country.





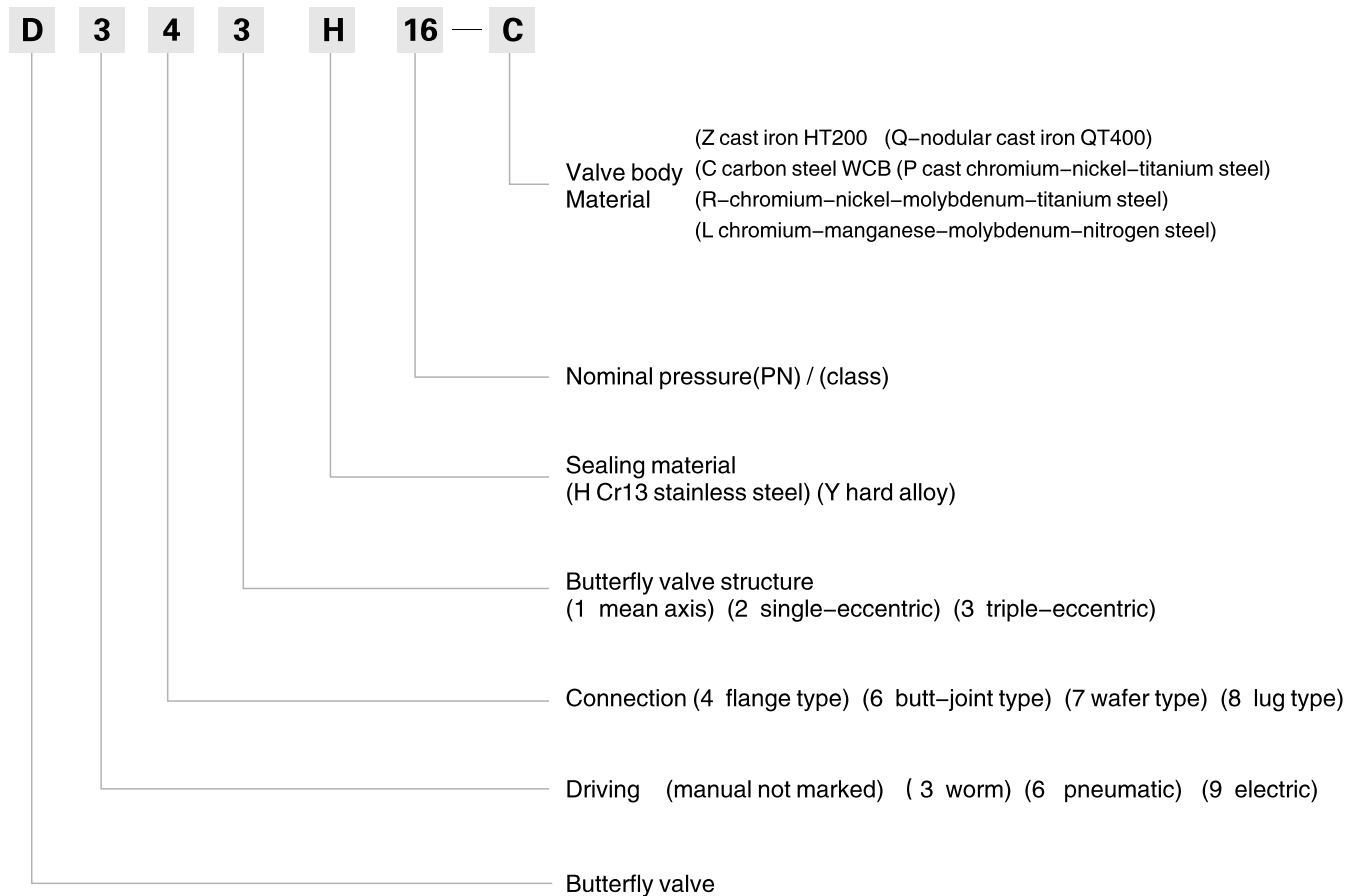
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14/15	<b>ASME B16.47B-2009</b>
16/21	<b>DIN EN 1092-1:2008-09    EN 1092-1:2007(D)</b>

## Butterfly valve lectotype solutions

### Model diagram



### Performance Specifications

Nominal pressure (PN)	Maxijum operating pressure under normal temperature(MPa)	Shell test pressure (MPa)	High pressure sealing test pressure(MPa)	Air tightness test pressure(MPa)
10	1.0	1.5	1.1	0.6
16	1.6	2.4	1.8	0.6
25	2.5	3.8	2.8	0.6
40	4.0	6.0	4.4	0.6
63	6.3	9.6	7.1	0.6
100	10.0	15.0	11.0	0.6
150Lb	2.0	3.0	2.2	0.6
300Lb	5.0	7.5	5.5	0.6
600Lb	10.0	15.0	11.0	0.6

## Butterfly valve application norms and key parameters

### Norms and Standards

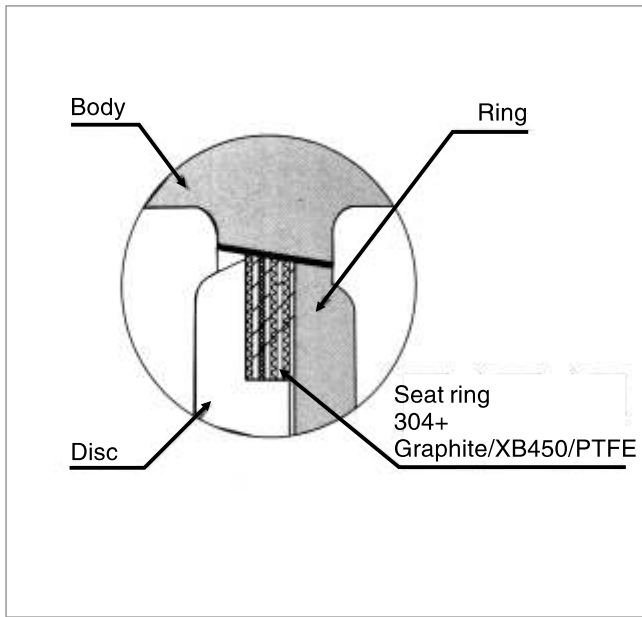
Design and manufacture	face to face	pressure-temperature rate	flange standard	test and chspeetion
API 609	API609	ASME B16.34	ASME B16.5	API 598
ASME B16.34	ASME B16.10	EN10204	ASME B16.47	EN12266-1
DIN 3354	EN558-1		EN 1092-1	

### Normal material table

CODE	BODY	DSIC	SEAT	STEM
1	ASTM A216 WCB	ASTM A216 WCB	PTFE RTFE 304+Graphite SS304 SS316 316+Graphite 304+PTFE 316+PTFE	ASTM A182 F6/A182 F6a
2	ASTM A351-CF8	ASTM A351-CF8		ASTM A182 F304/17-4PH
3	ASTM A351 CF8M	ASTM A351 CF8M		ASTM A182 F316/17-4PH
4	ASTM A217-WC6	ASTM A217-WC6		ASTM A182 F11/Inconel 625
5	ASTM A217-WC9	ASTM A217-WC9		ASTM A182 F22/Inconel 625
6	ASTM B62 C83600	ASTM B62 C83600		ASTM ASTM B124 C63200/F304/17-4PH

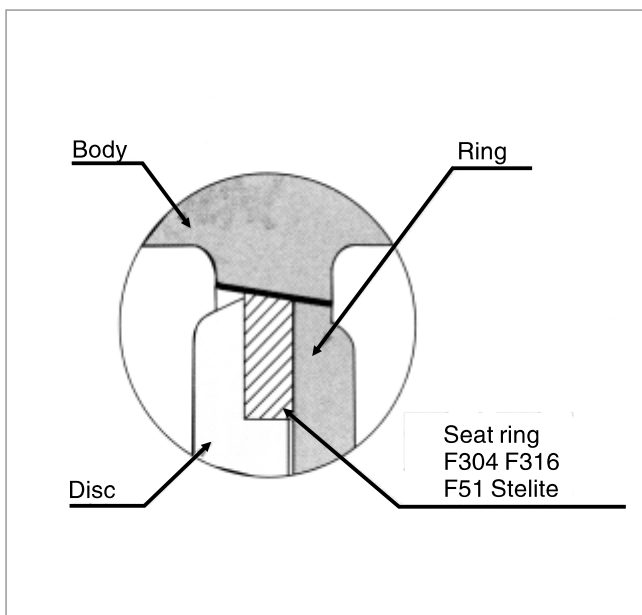
Note: anyother special material ,please see ASME B16.34 Table 1 and ASTM Stand

## Design features & technical parameters of the butterfly valve



### Properties of multilayer sealing structure

1. the leading triple-eccentric metallic composite cone beveling construction takes advantage of cam effect, thus valve seat could be released from seal ring through the whole switching process and zero friction exists between valve seat and butterfly plate seal ring in the 90°C travel of the valve, bringing about zero leak. superior two-way sealing performance. smaller operation torque in comparison with traditional high performance butterfly valve (single-eccentric or double-eccentric structure), extremely longer useful life of sealing face.
2. the butterfly plate seal ring is a multilayers seal ring. when it imposes torque on stem. the seal ring compresses on a radial basis and moves flexibly and elastically. the seal ring meets the edge of valve seat sealing face closely for perfect cut-off.
3. two-way sealing. the cone angle of sealing face is smaller than the friction angle of sealing material, thus lockout is brought when butterfly plate closes to sealing position and it can endure a certain level of reverse pressure impact.
4. optional sealing pair material, suitable for different temperature and medium.
5. flexible operation, ease and convenience, rapid cutting of medium and adjustable medium flow.

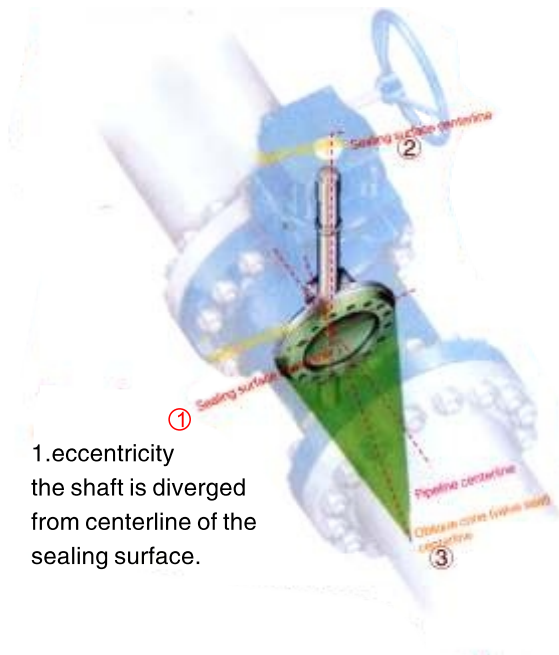


### Properties of all alloy hard sealing

1. perfect H2 series all-metal hard sealing butterfly valve is provided with three-dimensional eccentric sealing structure. it is processed and manufacture through unique techniques and dedicated facilities for maximum accuracy. this ensures full cone match of sealing pair and eliminates the intervention and abrasion between small switching resistance, reliable sealing performance, reduced sealing face abrasion, and extended useful life of valve.
2. high resistance to temperature, friction, corrosion and scouring.
3. unique construction, small switching torque, flexible operation, ease and convenience, high reliability.
4. the valve is tested according to procedures regulated by API598, The valve is characteristic of "essential fire safety" because of the metal-to-metal construction of the sealing pair.
5. the anti-blow-off-stem, safely and reliably designed, features clear and definite valve position indication and meets API609 design requirement.

# Stone Valve

## Temperature profile & flux coefficient diagram of the butterfly valve

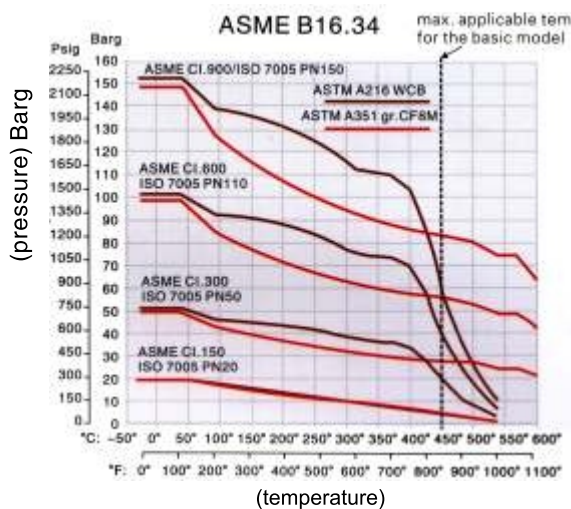


1.eccentricity  
the shaft is diverged from centerline of the sealing surface.

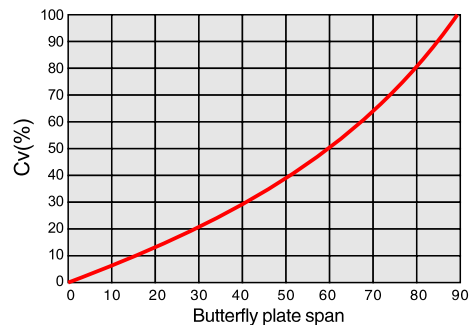
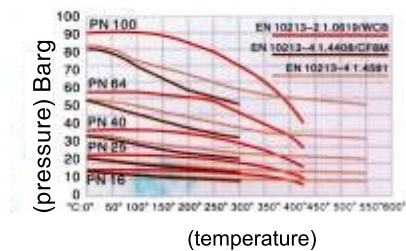
2.eccentricity  
the shaft is diverged from centerline of the piping and valve.  
these two eccentricities are designated for friction reduction between the valve seat and seal ring when opening and closing the valve.

3.eccentricity  
it makes the valve seat completely separated from the sealing ring through the geometric shape,during the whole process of opening and closing the valve.the special eccentric combination not only makes use of the cam effect,but also completely eliminates friction. it enables no friction between the valve seat and seal ring on the valve plate,to eliminate possible abrasion and leakage,in the 90° stroke of the valve.

### Temperature profile



Note:the temperature & pressure ration of all stone valve is in full compliance with ASME B16.34 or ISO 7005.



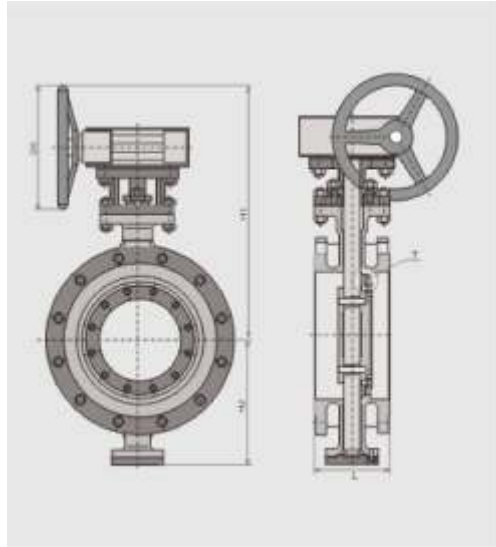
### flux coefficient diagram

DN	mm	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1200
	in	2	2.5	3	4	5	6	8	10	12	14	16	18	20	24	28	32	36	40	48
Cv		92	150	263	410	655	1060	2256	3178	4942	6317	8604	11053	13850	21489	33866	42638	50453	72741	92638

Cv valve is measured on the standard condition that the pressure of both ends of the valve drops to 1.PSI

# Stone Valve

## API D343(H/F)–150LB/300LB/600LB Flange butterfly valve dimensional diagram



### Application norms

1. valve design and manufacture as per API 609 ,ASME B16.34
2. Flange connection as per ASME B16.5,ASME B16.47
3. Valve body structural face to face as per API 609,ASME B16.10
4. Valve check and test as per API 598
5. Material pressure–temperature rate as per ASME B16.34

### Products Introduction

The butterfly valve is provided with triple–eccentric multilayer metal sealing structure. it is mainly used for regulating flow rate and cutting off or connecting fluid for different mediums in the pipeline in such sectors including petroleum, natural gas, chemical industry metallurgy, power plant, water supply and drainage, etc.

### Normal size

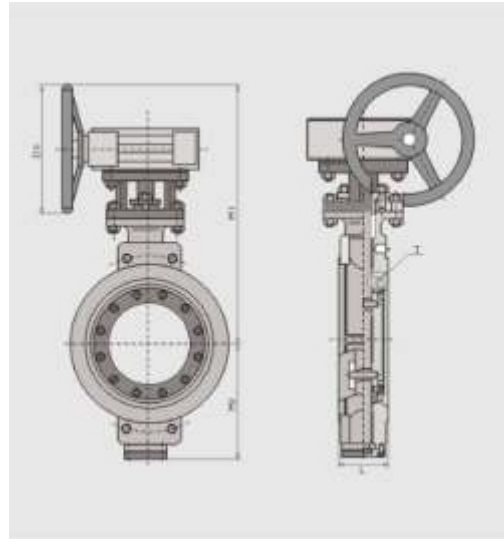
in	DN	L		H1~		H2~		D0~	
		150Lb/300Lb	600Lb	150Lb/300Lb	600Lb	150Lb/300Lb	600Lb	150Lb/300Lb	600Lb
2"	50	108	150	305	335	115	135	160	160
2.5"	65	112	170	315	345	125	155	160	160
3"	80	114	180	330	365	135	175	160	160
4"	100	127	190	360	455	140	190	160	280
5"	125	140	200	450	495	170	210	280	280
6"	150	140	210	475	540	175	250	280	280
8"	200	152	230	525	560	240	290	250	350
10"	250	165	250	570	660	270	330	250	350
12"	300	178	270	630	720	315	380	320	350
14"	350	190	290	675	800	345	410	350	350
16"	400	216	310	720	880	395	450	350	400
18"	450	222	330	805	960	405	490	350	400
20"	500	229	350	895	1030	430	520	400	400
24"	600	267	390	950	1150	500	580	400	400
28"	700	292		1030		505		400	
32"	800	318		1135		545		450	
36"	900	330		1175		620		450	
40"	1000	410		1270		670		500	
48"	1200	470		1400		760		500	

Note: The type of handle/worm/worm wheel/electric/pneumatic/hydraulic is customer defined.  
Any other size, please call us.



# Stone Valve

## API D373(H/F)–150LB/300LB/600LB Wafer butterfly valve dimensional diagram



### Application norms

1. valve design and manufacture as per API 609 ,ASME B16.34
2. Flange connection as per ASME B16.5,ASME B16.47
3. Valve body structural face to face as per API 609,ASME B16.10
4. Valve check and test as per API 598
5. Material pressure–temperature rate as per ASME B16.34

### Products Introduction

The butterfly valve is provided with triple–eccentric multilayer metal sealing structure. it is mainly used for regulating flow rate and cutting off or connecting fluid for different mediums in the pipeline in such sectors including petroleum, natural gas, chemical industry metallurgy, power plant, water supply and drainage, etc.

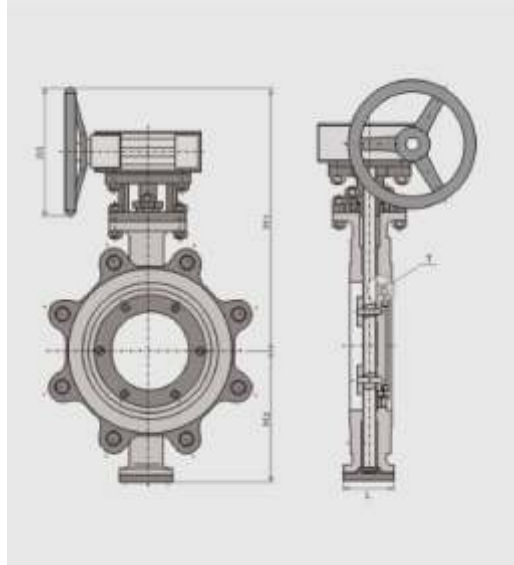
### Normal size

in	DN	L			H1~		H2~		D0~	
		150Lb	300Lb	600Lb	150Lb/300Lb	600Lb	150Lb/300Lb	600Lb	150Lb/300Lb	600Lb
2"	50	43	43	46	305	335	105	135	160	160
2.5"	65	46	46	54	315	345	115	155	160	160
3"	80	48	48	54	330	365	125	170	160	160
4"	100	54	54	64	360	455	150	180	160	280
5"	125	64	64	71	450	495	160	190	280	280
6"	150	57	59	78	475	540	185	250	280	280
8"	200	64	73	102	525	560	245	270	250	350
10"	250	71	83	117	520	660	275	330	250	350
12"	300	81	92	140	660	720	315	365	320	350
14"	350	92	117	155	670	800	330	395	350	350
16"	400	102	133	178	730	880	365	420	350	400
18"	450	114	149	200	810	960	390	450	350	400
20"	500	127	159	216	885	1030	430	495	400	400
24"	600	154	181	232	940	1150	470	570	400	450
28"	700	165			1050		505		400	
32"	800	190			1185		580		450	
36"	900	203			1205		625		450	
40"	1000	216			1260		685		500	
48"	1200	254			1395		790		500	

Note: The type of handle/worm/worm wheel/electric/pneumatic/hydraulic is customer defined.  
Any other size, please call us.

# Stone Valve

**API D383(H/F)–150LB/300LB/600LB**  
**Lug butterfly valve dimensional diagram**



## Application norms

1. valve design and manufacture as per  
API 609 ,ASME B16.34
2. Flange connection as per  
ASME B16.5,ASME B16.47
3. Valve body structural face to face as per  
API 609,ASME B16.10
4. Valve check and test as per  
API 598
5. Material pressure–temperature rate as per  
ASME B16.34

## Products Introduction

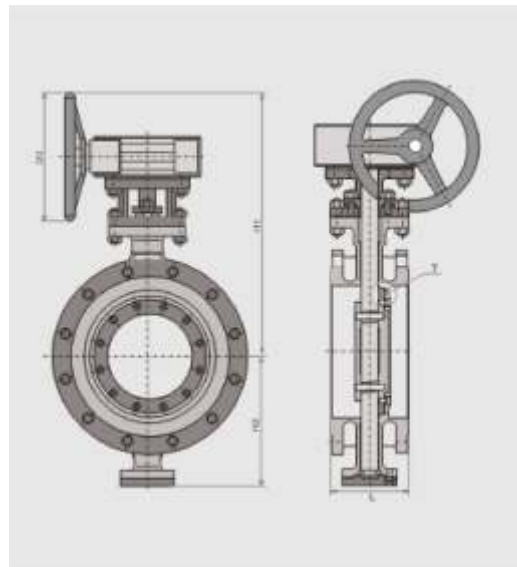
The butterfly valve is provided with triple–eccentric multilayer metal sealing structure. it is mainly used for regulating flow rate and cutting off or connecting fluid for different mediums in the pipeline in such sectors including petroleum, natural gas, chemical industry metallurgy, power plant, water supply and drainage, etc.

## Normal size

in	DN	L			H1~		H2~		D0~	
		150Lb	300Lb	600Lb	15Lb0/300Lb	600Lb	15Lb0/300Lb	600Lb	15Lb0/300Lb	600Lb
2"	50	43	43	46	305	335	105	135	160	160
2.5"	65	46	46	54	315	345	115	155	160	160
3"	80	48	48	54	330	365	125	170	160	160
4"	100	54	54	64	360	455	150	180	160	280
5"	125	64	64	71	450	495	160	190	280	280
6"	150	57	59	78	475	540	185	250	280	280
8"	200	64	73	102	525	560	245	270	250	350
10"	250	71	83	117	520	660	275	330	250	350
12"	300	81	92	140	660	720	315	365	320	350
14"	350	92	117	155	670	800	330	395	350	350
16"	400	102	133	178	730	880	365	420	350	400
18"	450	114	149	200	810	960	390	450	350	400
20"	500	127	159	216	885	1030	430	495	400	400
24"	600	154	181	232	940	1150	470	570	400	450
28"	700	165			1050		505		400	
32"	800	190			1185		580		450	
36"	900	203			1205		625		450	
40"	1000	216			1260		685		500	
48"	1200	254			1395		790		500	

Note: The type of handle/worm/worm wheel/electric/pneumatic/hydraulic is customer defined.  
 Any other size, please call us.

## DIN D343(H/F)–PN10/PN16/PN25/PN40/PN63/PN100 Flange butterfly valve dimensional diagram



### Application norms

1. valve design and manufacture as per DIN 3354
2. Flange connection as per EN 1092-1
3. Valve body structural face to face as per EN 558-1, ISO 5752
4. Valve check and test as per EN 12266-1
5. Material pressure-temperature rate as per EN 10204, ASME B16.34

### Products Introduction

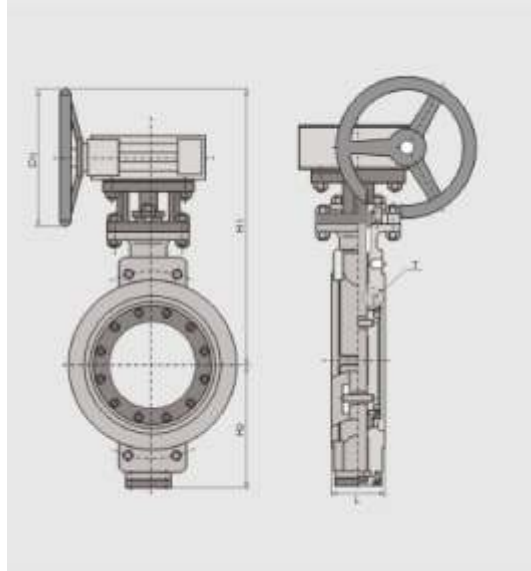
The butterfly valve is provided with triple-eccentric multilayer metal sealing structure. It is mainly used for regulating flow rate and cutting off or connecting fluid for different mediums in the pipeline in such sectors including petroleum, natural gas, chemical industry, metallurgy, power plant, water supply and drainage, etc.

### Normal size

DN	L		H1~		H2~		D0~	
	PN10/16/25/40	PN63/100	PN10/16/25/40	PN63/100	PN10/16/25/40	PN63/100	PN10/16/25/40	PN63/100
50	108	150	305	335	115	135	160	160
65	112	170	315	345	125	155	160	160
80	114	180	330	365	135	175	160	160
100	127	190	360	455	140	190	160	280
125	140	200	450	495	170	210	280	280
150	140	210	475	540	175	250	280	280
200	152	230	510	560	240	290	250	350
250	165	250	600	660	270	330	320	350
300	178	270	630	720	315	380	320	350
350	190	290	690	800	345	410	350	350
400	216	310	725	880	395	450	350	400
450	222	330	805	960	405	490	350	400
500	229	350	895	1030	430	520	400	400
600	267	390	960	1150	500	580	400	450
700	292		1070		530		400	
800	318		1160		615		450	
900	330		1225		640		450	
1000	410		1320		740		500	
1200	470		1485		805		500	

Note: The type of handle/worm/worm wheel/electric/pneumatic/hydraulic is customer defined.  
Any other size, please call us.

**DIN D373(H/F)–PN10/PN16/PN25/PN40/PN63/PN100  
Wafer butterfly valve dimensional diagram**



### Application norms

1. valve design and manufacture as per DIN 3354
2. Flange connection as per EN 1092–1
3. Valve body structural face to face as per EN 558–1
4. Valve check and test as per EN 12266–1
5. Material pressure–temperature rate as per EN 10204, ASME B16.34

### Products Introduction

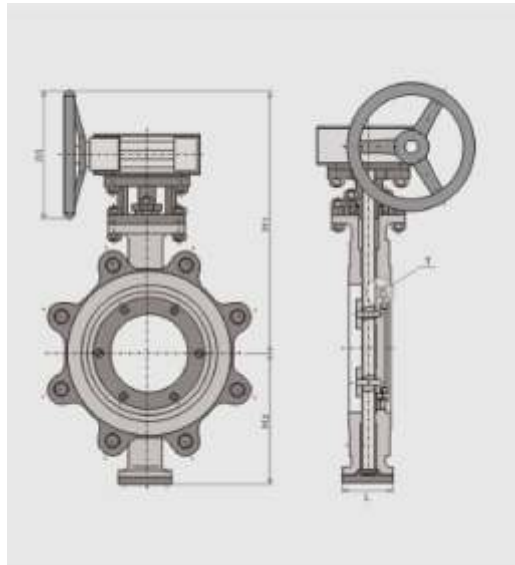
The butterfly valve is provided with triple–eccentric all alloy metal sealing structure. it is applicable for throttling under special work conditions or conditions with rigorous sealing requiremen, severe abrasion, low temperature (deep, cooling), etc. the products is especially suitable for switching or regulating medium in pipeline of high temperature, fire resistance, acid and alkali. particle medium, etc.

### Norminal size

DN	L			H1~		H2~		D0~	
	PN10/16/25	PN40	PN63/100	PN10/16/25/40	PN63/100	PN10/16/25/40	PN63/100	PN10/16/25/40	PN63/100
50	43	43	46	305	335	105	135	160	160
65	46	46	54	315	345	115	155	160	160
80	49	64	54	330	365	125	170	160	160
100	56	64	64	360	455	150	180	160	280
125	64	70	71	450	495	160	190	280	280
150	70	76	78	475	540	195	250	280	280
200	71	89	102	525	560	210	270	250	350
250	76	114	117	580	660	245	330	320	350
300	83	114	140	630	720	290	365	320	350
350	92	127	155	675	800	320	395	350	350
400	102	140	178	725	880	355	420	350	400
450	114	152	200	850	960	390	450	350	400
500	127	152	216	885	1030	430	495	400	400
600	154	178	232	940	1150	470	570	400	450
700	165			1080		540		400	
800	190			1175		610		450	
900	203			1225		650		450	
1000	216			1320		720		500	
1200	254			1445		840		500	

Note: The type of handle/worm/worm wheel/electric/pneumatic/hydraulic is customer defined.  
Any other size, please call us.

## DIN D383(H/F)–PN10/PN16/PN25/PN40/PN63/PN100 Lug butterfly valve dimensional diagram



### Application norms

1. valve design and manufacture as per DIN 3354
2. Flange connection as per EN 1092–1
3. Valve body structural face to face as per EN 558–1
4. Valve check and test as per EN 12266–1
5. Material pressure–temperature rate as per EN 10204, ASME B16.34

### Products Introduction

The butterfly valve is provided with triple–eccentric multilayer metal sealing structure. it is mainly used for regulating flow rate and cutting off or connecting fluid for different mediums in the pipeline in such sectors including petroleum, natural gas, chemical industry metallurgy, power plant, water supply and drainage, etc.

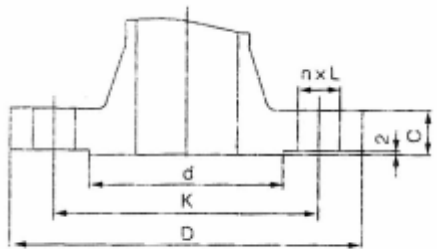
### Norminal size

DN	L			H1~		H2~		D0~	
	PN10/16/25	PN40	PN63/100	PN10/16/25/40	PN63/100	PN10/16/25/40	PN63/100	PN10/16/25/40	PN63/100
50	43	43	46	305	335	105	135	160	160
65	46	46	54	315	345	115	155	160	160
80	49	64	54	330	365	125	170	160	160
100	56	64	64	360	455	150	180	160	280
125	64	70	71	450	495	160	190	280	280
150	70	76	78	475	540	195	250	280	280
200	71	89	102	525	560	210	270	250	350
250	76	114	117	580	660	245	330	320	350
300	83	114	140	630	720	290	365	320	350
350	92	127	155	675	800	320	395	350	350
400	102	140	178	725	880	355	420	350	400
450	114	152	200	850	960	390	450	350	400
500	127	152	216	885	1030	430	495	400	400
600	154	178	232	940	1150	470	570	400	450
700	165			1080		540		400	
800	190			1175		610		450	
900	203			1225		650		450	
1000	216			1320		720		500	
1200	254			1445		840		500	

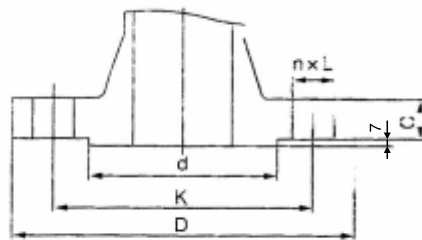
Note: The type of handle/worm/worm wheel/electric/pneumatic/hydraulic is customer defined.  
Any other size, please call us.

# Stone Valve

## ASME B16.5-2009



CLASS ≤300lb R F PN ≤5.0MPa



CLASS ≥400lb R F PN ≥6.8MPa

### Class 150 RF

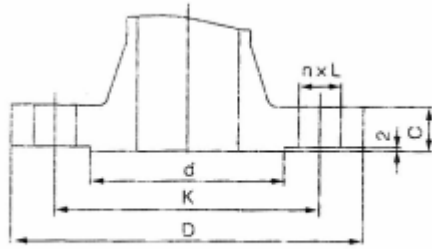
SIZE		D		K		d		N-L		C		Bolt Size	
DN	NPS	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
15	1/2	90	3.50	60.3	2.38	35	1.38	4-16	4-0.62	11	0.44	M14	1/2
20	3/4	100	3.88	70	2.75	43	1.69	4-16	4-0.62	13	0.50	M14	1/2
25	1	110	4.25	79.5	3.12	51	2.0	4-16	4-0.62	14	0.56	M14	1/2
32	1 1/4	115	4.62	89	3.50	63.5	2.50	4-16	4-0.62	16	0.62	M14	1/2
40	1 1/2	125	5	98.5	3.88	73	2.88	4-16	4-0.62	18	0.69	M14	1/2
50	2	150	6	120.7	4.75	92	3.62	4-19	4-0.75	19	0.75	M16	5/8
65	2 1/2	180	7	139.7	5.50	105	4.12	4-19	4-0.75	22	0.88	M16	5/8
80	3	190	7.50	152.5	6	127	5.0	4-19	4-0.75	24	0.94	M16	5/8
100	4	230	9	190.5	7.50	157	6.19	8-19	8-0.75	24	0.94	M16	5/8
125	5	255	10	216	8.50	186	7.31	8-22	8-0.88	24	0.94	M20	3/4
150	6	280	11	241.5	9.50	216	8.50	8-22	8-0.88	26	1	M20	3/4
200	8	345	13.50	298.5	11.75	270	10.62	8-22	8-0.88	29	1.12	M20	3/4
250	10	405	16	362	14.25	324	12.75	12-26	12-1	31	1.19	M24	7/8
300	12	485	19	432	17	381	15.0	12-26	12-1	32	1.25	M24	7/8
350	14	535	21	476.3	18.75	413	16.25	12-29	12-1.12	35	1.38	M27	1
400	16	595	23.50	540	21.25	470	18.50	16-29	16-1.12	37	1.44	M27	1
450	18	635	25	578	22.75	533	21.0	16-32	16-1.25	40	1.56	M30	1 1/8
500	20	700	27.50	635	25	584	23.0	20-32	20-1.25	43	1.69	M30	1 1/8
600	24	815	32	749.5	29.50	692	27.25	20-35	20-1.38	48	1.88	M33	1 1/4

### Class 300 RF

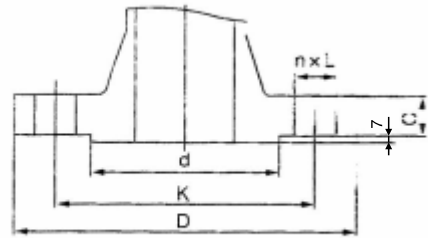
SIZE		D		K		d		N-L		C		Bolt Size	
DN	NPS	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
15	1/2	95	3.75	66.7	2.62	35	1.38	4-16	4-0.62	15	0.56	M14	1/2
20	3/4	115	4.62	82.6	3.25	43	1.69	4-19	4-0.75	16	0.62	M16	5/8
25	1	125	4.88	89	3.50	51	2.0	4-19	4-0.75	18	0.69	M16	5/8
32	1 1/4	135	5.25	98.5	3.88	63.5	2.50	4-19	4-0.75	19.5	0.75	M16	5/8
40	1 1/2	155	6.12	114.5	4.50	73	2.88	4-22	4-0.88	21	0.81	M20	3/4
50	2	165	6.50	127	5.0	92	3.62	8-19	8-0.62	23	0.88	M16	5/8
65	2 1/2	190	7.50	149.2	5.88	105	4.12	8-22	8-0.88	26	1	M20	3/4
80	3	210	8.25	168.3	6.62	127	5.0	8-22	8-0.88	29	1.12	M20	3/4
100	4	255	10	200	7.88	157	6.19	8-22	8-0.88	32	1.25	M20	3/4
125	5	280	11	235	9.25	186	7.31	8-22	8-0.88	35	1.38	M20	3/4
150	6	320	12.50	270	10.62	216	8.50	12-22	12-0.88	37	1.44	M20	3/4
200	8	380	15.0	330	13.0	270	10.62	12-26	12-1	42	1.62	M24	7/8
250	10	445	17.50	387.5	15.25	324	12.75	16-29	16-1.12	48	1.88	M27	1
300	12	520	20.50	451	17.75	381	15.0	16-32	16-1.25	51	2	M30	1 1/8
350	14	585	23.0	514.5	20.25	413	16.25	20-32	20-1.25	54	2.12	M30	1 1/8
400	16	650	25.50	571.5	22.50	470	18.50	20-35	20-1.38	58	2.25	M33	1 1/4
450	18	710	28.0	628.5	24.75	533	21.0	24-35	24-1.38	61	2.38	M33	1 1/4
500	20	775	30.50	686	27.0	584	23.0	24-35	24-1.38	64	2.50	M33	1 1/4
600	24	915	36.0	813	32.0	692	27.25	24-42	24-1.62	70	2.75	M39X3	1 1/2

# Stone Valve

ASME B16.5-2009



CLASS ≤300lb R F PN ≤5.0MPa

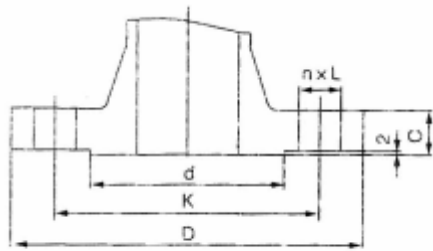


CLASS ≥400lb R F PN ≥6.8MPa

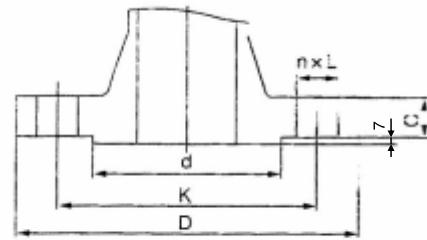
## Class 600 RF

SIZE		D		K		d		N-L		C		Bolt Size	
DN	NPS	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
15	1/2	95	3.75	66.7	2.62	35	1.38	4-16	4-0.62	15	0.56	M14	1/2
20	3/4	115	4.62	82.5	3.25	43	1.69	4-19	4-0.75	16	0.62	M16	5/8
25	1	125	4.88	88.9	3.50	51	2.0	4-19	4-0.75	18	0.69	M16	5/8
32	1 1/4	135	5.25	98.5	3.88	63.5	2.50	4-19	4-0.75	21	0.81	M16	5/8
40	1 1/2	155	6.12	114.3	4.50	73	2.88	4-22	4-0.88	23	0.88	M20	3/4
50	2	165	6.50	127	5.0	92	3.62	8-19	8-0.75	26	1.00	M16	5/8
65	2 1/2	190	7.50	149.2	5.88	105	4.12	8-22	8-0.88	29	1.12	M20	3/4
80	3	210	8.25	168.5	6.62	127	5.0	8-22	8-0.88	32	1.25	M20	3/4
100	4	275	10.75	215.9	8.50	157	6.19	8-26	8-1.00	38	1.50	M24	7/8
125	5	330	13.0	266.7	10.5	186	7.31	8-29	8-1.12	45	1.75	M27	1
150	6	355	14.0	292.1	11.5	216	8.50	12-29	12-1.12	48	1.88	M27	1
200	8	420	16.50	349.2	13.75	270	10.62	12-32	12-1.25	56	2.19	M30	1 1/8
250	10	510	20.0	431.8	17.0	324	12.75	16-35	16-1.38	64	2.50	M33	1 1/4
300	12	560	22.0	489	19.25	381	15.0	20-35	20-1.38	67	2.62	M33	1 1/4
350	14	605	23.75	527	20.75	413	16.25	20-39	20-1.50	70	2.75	M36x3	1 3/8
400	16	685	27.0	603.2	23.75	470	18.50	20-42	20-1.62	77	3.00	M39x3	1 1/2
450	18	745	29.25	654	25.75	533	21.0	20-45	20-1.75	83	3.25	M42x3	1 5/8
500	20	815	32.0	723.9	28.50	584	23.0	24-45	24-1.75	89	3.50	M42x3	1 5/8
600	24	940	37.0	838.2	33.0	692	27.25	24-51	24-2.00	102	4.00	M48x3	1 7/8

## ASME B16.47A-2009



CLASS ≤ 300Lb R F PN ≤ 5.0MPa



CLASS ≥ 400Lb R F PN ≥ 6.8MPa

### Class 150 RF

SIZE		D		K		d		N-L		C		Bolt Size	
DN	NPS	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
650	26	870	34.25	806.5	31.75	749	29.50	24-35	24-1.38	68.5	2.69	M33	1 1/4
700	28	927	36.50	863.6	34.00	800	31.50	28-35	28-1.38	71.5	2.81	M33	1 1/4
750	30	984	38.75	914.4	36.00	857	33.75	28-35	28-1.38	75	2.94	M33	1 1/4
800	32	1060	41.75	978	38.50	914	36.00	28-41	28-1.62	81.5	3.19	M39X3	1 1/2
850	34	1111	43.75	1029	40.50	965	38.00	32-41	32-1.62	83	3.25	M39X3	1 1/2
900	36	1168	46.00	1086	42.75	1022	40.25	32-41	32-1.62	90.5	3.56	M39X3	1 1/2
950	38	1238	48.75	1149.4	45.25	1073	42.25	32-41	31-1.62	87.5	3.44	M39X3	1 1/2
1000	40	1289	50.75	1200.2	47.25	1124	44.25	36-41	36-1.62	90.5	3.56	M39X3	1 1/2
1050	42	1346	53.00	1257.3	49.50	1194	47.00	36-41	36-1.62	97	3.81	M39X3	1 1/2
1100	44	1403.5	55.25	1314.5	51.75	1245	49.00	40-41	40-1.62	102	4.00	M39X3	1 1/2
1150	46	1454	57.25	1365.3	53.75	1295	51.00	40-41	40-1.62	103	4.06	M39X3	1 1/2
1200	48	1511	59.50	1422.4	56.00	1359	53.50	44-41	44-1.62	108	4.25	M39X3	1 1/2
1250	50	1568.5	61.75	1479.6	58.25	1410	55.50	44-48	44-1.88	111	4.38	M45X3	1 3/4
1300	52	1626	64.00	1537	60.50	1461	57.50	44-48	44-1.88	116	4.56	M45X3	1 3/4
1350	54	1683	66.25	1594	62.75	1511	59.50	44-48	44-1.88	121	4.75	M45X3	1 3/4
1400	56	1746	68.75	1651	65.00	1575	62.00	48-48	48-1.88	124	4.88	M45X3	1 3/4
1450	58	1803.5	71.00	1708.2	67.25	1626	64.00	48-48	48-1.88	129	5.06	M45X3	1 3/4
1500	60	1854	73.00	1759	69.25	1676	66.00	52-48	52-1.88	132	5.19	M45X3	1 3/4

### Class 300 RF

SIZE		D		K		d		N-L		C		Bolt Size	
DN	NPS	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
650	26	972	38.25	876.3	34.50	749	29.50	28-45	28-1.75	79.3	3.12	M42x3	1 5/8
700	28	1035	40.75	939.8	37.00	800	31.50	28-45	28-1.75	86	3.38	M42x3	1 5/8
750	30	1092	43.0	997	39.25	857	33.75	28-48	28-1.88	92	3.62	M45x3	1 3/4
800	32	1149	45.25	1054	41.50	914	36.00	28-51	28-2.00	99	3.88	M48x3	1 7/8
850	34	1207	47.50	1105	43.50	965	38.00	28-51	28-2.00	102	4.00	M48x3	1 7/8
900	36	1270	50.00	1168.4	46.00	1022	40.25	32-54	32-2.12	105	4.12	M52x3	2
950	38	1168	46.00	1092.2	43.00	1029	40.50	32-42	32-1.62	108	4.25	M39x3	1 1/2
1000	40	1238	48.75	1156	45.50	1086	42.75	32-45	32-1.75	114	4.50	M42x3	1 5/8
1050	42	1289	50.75	1206.5	47.50	1137	44.75	32-45	32-1.75	119	4.69	M42x3	1 5/8
1100	44	1353	53.25	1264	49.75	1194	47.00	32-48	32-1.88	124	4.88	M45x3	1 3/4
1150	46	1416	55.75	1321	52.00	1245	49.00	28-51	28-2.00	129	5.06	M48x3	1 7/8
1200	48	1467	57.75	1372	54.00	1302	51.25	32-51	32-2.00	133.4	5.25	M48x3	1 7/8
1250	50	1530	60.25	1429	56.25	1359	53.50	32-54	32-2.12	140	5.50	M52x3	2
1300	52	1581	62.25	1480	58.25	1410	55.50	32-54	32-2.12	145	5.69	M52x3	2
1350	54	1657	65.25	1549	61.00	1467	57.75	28-60	28-2.38	152.4	6.00	M56x3	2 1/4
1400	56	1708	67.25	1600	63.00	1518	59.75	28-60	28-2.38	154	6.06	M56x3	2 1/4
1450	58	1759	69.25	1651	65.00	1575	62.00	32-60	32-2.38	159	6.25	M56x3	2 1/4
1500	60	1810	71.25	1702	67.00	1626	64.00	32-60	32-2.38	164	6.44	M56x3	2 1/4



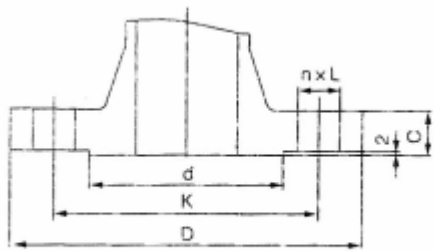
# Stone Valve

## ASME B16.47A-2009

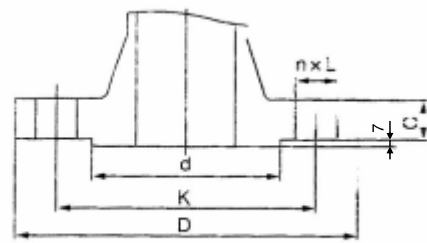
### Class 600 RF

SIZE		D		K		d		N-L		C		Bolt Size	
DN	NPS	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
650	26	1016	40.00	914.4	36.0	749	29.50	28-51	28-2.00	108	4.25	M48x3	1 7/8
700	28	1073	42.25	965.2	38.0	800	31.50	28-54	28-2.12	111.5	4.38	M52x3	2
750	30	1130	44.50	1022.4	40.25	857	33.75	28-54	28-2.12	114.5	4.50	M52x3	2
800	32	1194	47.00	1079.5	42.50	914	36.00	28-60	28-2.38	117.5	4.62	M56x3	2 1/4
850	34	1245	49.00	1130.3	44.50	965	38.00	28-60	28-2.38	121	4.75	M56x3	2 1/4
900	36	1314	51.75	1194	47.00	1022	40.25	28-67	28-2.62	124	4.88	M64x3	2 1/2
950	38	1270	50.00	1162	45.75	1054	41.50	28-60	28-2.38	152.4	6.00	M56x3	2 1/4
1000	40	1321	52.00	1213	47.75	1111	43.75	32-60	32-2.38	159	6.25	M56x3	2 1/4
1050	42	1403	55.25	1283	50.50	1168	46.00	28-67	28-2.62	168.5	6.62	M64x3	2 1/2
1100	44	1454	57.25	1333.5	52.50	1226	48.25	32-67	32-2.62	173	6.81	M64x3	2 1/2
1150	46	1511	59.50	1391	54.75	1276	50.25	32-67	32-2.62	179.5	7.06	M64x3	2 1/2
1200	48	1594	62.75	1460.5	57.50	1334	52.50	32-73	32-2.88	189	7.44	M70x3	2 3/4
1250	50	1670	65.75	1524	60.00	1384	54.50	28-80	28-3.12	197	7.75	M76x3	3
1300	52	1721	67.75	1575	62.00	1435	56.50	32-80	32-3.12	203.5	8.00	M76x3	3
1350	54	1778	70.00	1632	64.25	1492	58.75	32-80	32-3.12	210	8.25	M76x3	3
1400	56	1854	73.00	1695.5	66.75	1543	60.75	32-86	32-3.38	217.5	8.56	M82x3	3 1/4
1450	58	1905	75.00	1746	68.75	1600	63.00	32-86	32-3.38	222.5	8.75	M82x3	3 1/4
1500	60	1994	78.50	1822	71.75	1657	65.25	28-92	28-3.62	233.5	9.19	M90x3	3 1/2

## ASME B16.47B-2009



CLASS ≤300lb RF PN ≤5.0MPa



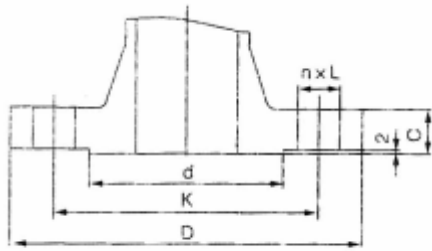
CLASS ≥400lb RF PN ≥6.8MPa

### Class 150 RF

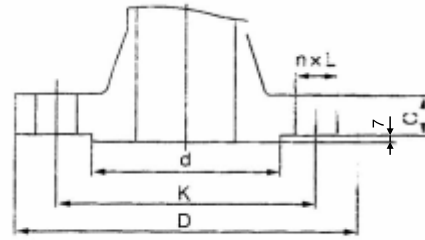
SIZE		D		K		d		N-L		C		Bolt Size	
DN	NPS	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
650	26	786	30.94	744.5	29.31	711	28.00	36-22	36-0.88	41.5	1.62	M20	3/4
700	28	837	32.94	795.3	31.31	762	30.00	40-22	40-0.88	44.5	1.75	M20	3/4
750	30	887	34.94	846.1	33.31	813	32.00	44-22	44-0.88	44.5	1.75	M20	3/4
800	32	941	37.06	900.2	35.44	864	34.00	48-22	48-0.88	46	1.81	M20	3/4
850	34	1005	39.56	957.3	37.69	921	36.25	40-26	40-1.00	49.5	1.94	M24	7/8
900	36	1057	41.62	1009.7	39.75	972	38.25	44-26	44-1.00	52.5	2.06	M24	7/8
950	38	1124	44.25	1069.8	42.12	1022	40.25	40-29	40-1.12	54	2.12	M27	1
1000	40	1175	46.25	1120.6	44.12	1080	42.50	44-29	44-1.12	56	2.19	M27	1
1050	42	1226	48.25	1171.4	46.12	1130	44.50	48-29	48-1.12	59	2.31	M27	1
1100	44	1276	50.25	1222.2	48.12	1181	46.50	52-29	52-1.12	60.5	2.38	M27	1
1150	46	1341	52.81	1284.2	50.56	1235	48.62	40-32	40-1.25	62	2.44	M30	1 1/8
1200	48	1392	54.81	1335	52.56	1289	50.75	44-32	44-1.25	65	2.56	M30	1 1/8
1250	50	1443	56.81	1385.8	54.56	1340	52.75	48-32	48-1.25	68.5	2.69	M30	1 1/8
1300	52	1494	58.81	1436.6	56.56	1391	54.75	52-32	52-1.25	70	2.75	M30	1 1/8
1350	54	1549.5	61.00	1492.3	58.75	1441	56.75	56-32	56-1.25	71.5	2.81	M30	1 1/8
1400	56	1600	63.00	1543.1	60.75	1492	58.75	60-32	60-1.25	73.5	2.88	M30	1 1/8
1450	58	1675	65.94	1611.4	63.44	1543	60.75	48-35	48-1.38	75	2.94	M33	1 1/4
1500	60	1726	67.94	1662.2	65.44	1600	63.00	52-35	52-1.38	76.5	3.00	M33	1 1/4

# Stone Valve

ASME B16.47B-2009



CLASS ≤300lb R F PN ≤5.0MPa



CLASS ≥400lb R F PN ≥6.8MPa

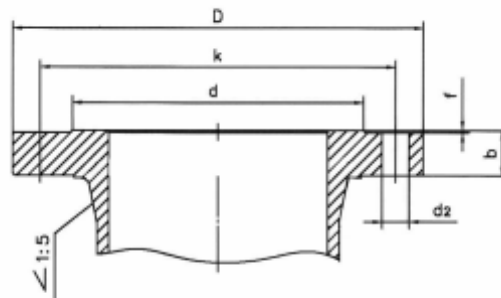
## Class 300 RF

SIZE		D		K		d		N-L		C		Bolt Size	
DN	NPS	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
650	26	867	34.12	803.1	31.62	737	29.00	32-35	32-1.38	89	3.50	M33	1 1/4
700	28	921	36.25	857.3	33.75	787	31.00	36-35	36-1.38	89	3.50	M33	1 1/4
750	30	991	39.00	920.8	36.25	845	33.25	36-38	36-1.50	94	3.69	M36	1 3/8
800	32	1054	41.50	977.9	38.50	902	35.50	32-41	32-1.62	103.5	4.06	M39x3	1 1/2
850	34	1108	43.62	1031.7	40.62	953	37.50	36-41	36-1.62	103.5	4.06	M39x3	1 1/2
900	36	1171	46.12	1089.2	42.88	1010	39.75	32-44	32-1.75	103.5	4.06	M42x3	1 5/8
950	38	1222	48.12	1140	44.88	1060	41.75	36-44	36-1.75	111.5	4.38	M42x3	1 5/8
1000	40	1273	50.12	1190.8	46.88	1115	43.88	40-44	40-1.75	116	4.56	M42x3	1 5/8
1050	42	1334	52.50	1244.6	49.00	1168	46.00	36-48	36-1.88	119.5	4.69	M45x3	1 3/4
1100	44	1384	54.50	1295.4	51.00	1219	48.00	40-48	40-1.88	127	5.00	M45x3	1 3/4
1150	46	1460.5	57.50	1365.3	53.75	1270	50.00	36-51	36-2.00	129	5.06	M48x3	1 7/8
1200	48	1511	59.50	1416.1	55.75	1327	52.25	40-51	40-2.00	129	5.06	M48x3	1 7/8
1250	50	1562	61.50	1466.9	57.75	1378	54.25	44-51	44-2.00	138.5	5.44	M48x3	1 7/8
1300	52	1613	63.50	1517.7	59.75	1429	56.25	48-51	48-2.00	143	5.62	M48x3	1 7/8
1350	54	1673	65.88	1577.8	62.12	1480	58.25	48-51	48-2.00	137	5.38	M48x3	1 7/8
1400	56	1765	69.50	1651	65.00	1537	60.5	36-60	36-2.38	154	6.06	M56x3	2 1/4
1450	58	1827	71.94	1713.0	67.44	1594	62.75	40-60	40-2.38	154	6.06	M56x3	2 1/4
1500	60	1878	73.94	1763.8	69.44	1651	65.00	40-60	40-2.38	151	5.94	M56x3	2 1/4

## Class 600 RF

SIZE		D		K		d		N-L		C		Bolt Size	
DN	NPS	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
650	26	889	35.00	806.5	31.75	727	28.62	28-44	28-1.75	111.5	4.38	M42X3	1 5/8
700	28	953	37.50	863.6	34.00	784	30.88	28-48	28-1.88	116	4.56	M45X3	1 3/4
750	30	1022	40.25	927.1	36.50	841	33.12	28-51	28-2.00	125.5	4.94	M48X3	1 7/8
800	32	1086	42.75	984.3	38.75	895	35.25	28-54	28-2.12	130.5	5.12	M52X3	2
850	34	1162	45.75	1054.1	41.50	953	37.50	24-60	24-2.38	141.5	5.56	M56X3	2 1/4
900	36	1213	47.75	1104.9	43.50	1010	39.75	28-60	28-2.38	146.5	5.75	M56X3	2 1/4

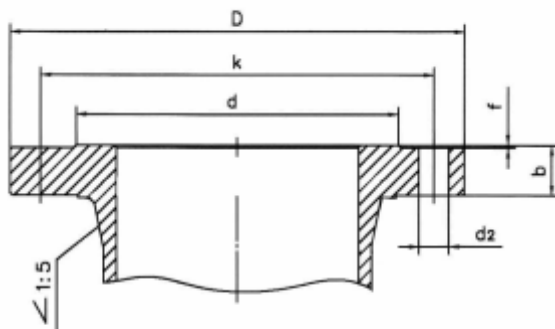
DIN EN 1092-1:2008-09 EN 1092-1:2007(D)



PN10~PN160

## PN10 Steel pipe flange

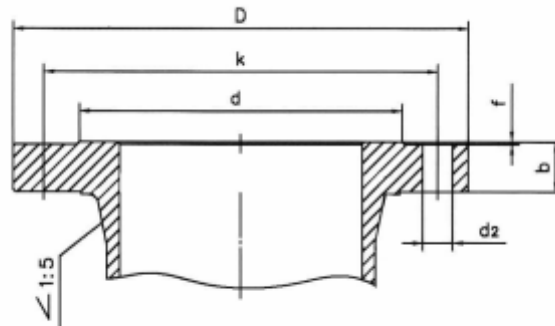
DN	Flange			Raised face		Bolt		
	D	k	b	d	f	Number	d2	Size
10	90	60	16	40	2	4	14	M12
15	95	65	16	45	2	4	14	M12
20	105	75	18	58	2	4	14	M12
25	115	85	18	68	2	4	14	M12
32	140	100	18	78	2	4	18	M16
40	150	110	18	88	3	4	18	M16
50	165	125	18	102	3	4	18	M16
65	185	145	18	122	3	8	18	M16
80	200	160	20	138	3	8	18	M16
100	220	180	20	158	3	8	18	M16
125	250	210	22	188	3	8	18	M16
150	285	240	22	212	3	8	22	M20
200	340	295	24	268	3	8	22	M20
250	395	350	26	320	3	12	22	M20
300	445	400	26	370	4	12	22	M20
350	505	460	26	430	4	16	22	M20
400	565	515	26	482	4	16	26	M24
450	615	565	28	532	4	20	26	M24
500	670	620	28	585	4	20	26	M24
600	780	725	30	685	5	20	30	M27
700	895	840	35	800	5	24	30	M27
800	1015	950	38	905	5	24	33	M30
900	1115	1050	38	1005	5	28	33	M30
1000	1230	1160	44	1110	5	28	36	M33
1200	1455	1380	55	1330	5	32	39	M36
1400	1675	1590	65	1535	5	36	42	M39
1600	1915	1820	75	1760	5	40	48	M45
1800	2115	2020	85	1960	5	44	48	M45
2000	2325	2230	90	2170	5	48	48	M45
2200	2550	2440	100	2370	5	52	56	M52
2400	2760	2650	110	2570	5	56	56	M52
2600	2960	2850	110	2780	5	60	56	M52
2800	3180	3070	124	3000	5	64	56	M52



PN10~PN160

## PN16 Steel pipe flange

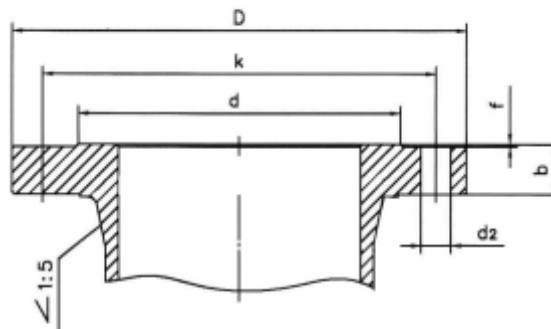
DN	Flange			Raised face		Bolt		
	D	k	b	d	f	Number	d2	Size
10	90	60	16	40	2	4	14	M12
15	95	65	16	45	2	4	14	M12
20	105	75	18	58	2	4	14	M12
25	115	85	18	68	2	4	14	M12
32	140	100	18	78	2	4	18	M16
40	150	110	18	88	3	4	18	M16
50	165	125	18	102	3	4	18	M16
65	185	145	18	122	3	8	18	M16
80	200	160	20	138	3	8	18	M16
100	220	180	20	158	3	8	18	M16
125	250	210	22	188	3	8	18	M16
150	285	240	22	212	3	8	22	M20
200	340	295	24	268	3	12	22	M20
250	405	355	26	320	3	12	26	M24
300	460	410	28	378	4	12	26	M24
350	520	470	30	438	4	16	26	M24
400	580	525	32	490	4	16	30	M27
500	715	650	36	610	4	20	33	M30
600	840	770	40	725	5	20	36	M33
700	910	840	40	795	5	24	36	M33
800	1025	950	42	900	5	24	39	M36
900	1125	1050	48	1000	5	28	39	M36
1000	1255	1170	59	1115	5	28	42	M39
1200	1485	1390	78	1330	5	32	48	M45
1400	1685	1590	84	1530	5	36	48	M45
1600	1930	1820	102	1750	5	40	56	M52
1800	2130	2020	110	1950	5	44	56	M52
2000	2345	2230	124	2150	5	48	62	M56



PN10~PN160

## PN25 Steel pipe flange

DN	Flange			Raised face		Bolt		
	D	k	b	d	f	Number	d2	Size
10	90	60	16	40	2	4	14	M12
15	95	65	16	45	2	4	14	M12
20	105	75	18	58	2	4	14	M12
25	115	85	18	68	2	4	14	M12
32	140	100	18	78	2	4	18	M16
40	150	110	18	88	3	4	18	M16
50	165	125	20	102	3	4	18	M16
65	185	145	22	122	3	8	18	M16
80	200	160	24	138	3	8	18	M16
100	235	190	24	162	3	8	22	M16
125	270	220	26	188	3	8	26	M24
150	300	250	28	218	3	8	26	M24
200	360	310	30	278	3	12	26	M24
250	425	370	32	335	3	12	30	M27
300	485	430	34	395	4	16	30	M27
350	555	490	38	450	4	16	33	M30
400	620	550	40	505	4	16	36	M33
500	730	660	48	615	4	20	36	M33
600	845	770	48	720	5	20	39	M36
700	960	875	50	820	5	24	42	M39
800	1085	990	54	930	5	24	48	M45
900	1185	1090	57	1030	5	28	48	M45
1000	1320	1210	63	1140	5	28	56	M52
1200	1530	1420	70	1350	5	32	56	M52
1400	1755	1640	76	1560	5	36	62	M56
1600	1975	1860	84	1780	5	40	62	M56
1800	2195	2070	90	1985	5	44	70	M64
2000	2425	2300	96	2210	5	48	70	M64



PN10~PN160

## PN40 Steel pipe flange

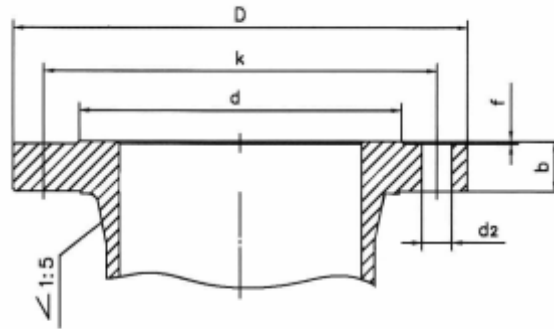
DN	Flange			Raised face		Bolt		
	D	k	b	d	f	Number	d2	Size
10	90	60	16	40	2	4	14	M12
15	95	65	16	45	2	4	14	M12
20	105	75	18	58	2	4	14	M12
25	115	85	18	68	2	4	14	M12
32	140	100	18	78	2	4	18	M16
40	150	110	18	88	3	4	18	M16
50	165	125	20	102	3	4	18	M16
65	185	145	22	122	3	8	18	M16
80	200	160	24	138	3	8	18	M16
100	235	190	24	162	3	8	22	M20
125	270	220	26	188	3	8	26	M24
150	300	250	28	218	3	8	26	M24
200	375	320	34	285	3	12	30	M27
250	450	385	38	345	4	12	33	M30
300	515	450	42	410	4	16	33	M30
350	580	510	46	465	4	16	36	M33
400	660	585	50	535	4	16	39	M36
450	685	610	50	560	4	20	39	M36
500	755	670	52	615	4	20	42	M39
600	890	795	60	735	5	20	48	M45
700	995	900	64	840	5	24	48	M45
800	1140	1030	72	960	5	24	56	M52
900	1250	1140	76	1070	5	28	56	M52
1000	1360	1250	80	1180	5	28	56	M52
1200	1575	1460	88	1380	5	32	62	M56
1400	1795	1680	98	1600	5	36	62	M56
1600	2025	1900	108	1815	5	40	70	M64

## PN63 Steel pipe flange

DN	Flange			Raised face		Bolt		
	D	k	b	d	f	Number	d2	Size
10	100	70	20	40	2	4	14	M12
15	105	75	20	45	2	4	14	M12
20	130	90	22	58	2	4	18	M16
25	140	100	24	68	2	4	18	M16
32	155	110	24	75	3	4	22	M20
40	170	125	28	88	3	4	22	M20
50	180	135	26	102	3	4	22	M20
65	205	160	26	122	3	8	22	M20
80	215	170	28	138	3	8	22	M20
100	250	200	30	162	3	8	26	M24
125	295	240	34	188	3	8	30	M27
150	345	280	36	218	3	8	33	M30
200	415	345	42	285	3	12	36	M33
250	470	400	46	345	3	12	36	M33
300	530	460	52	410	4	16	36	M33
350	600	525	56	465	4	16	39	M36
400	670	585	60	535	4	16	42	M39
500	800	705	68	615	4	20	48	M45
600	930	820	76	735	5	20	56	M52

## PN100 Steel pipe flange

DN	Flange			Raised face		Bolt		
	D	k	b	d	f	Number	d2	Size
10	100	70	20	40	2	4	14	M12
15	105	75	20	45	2	4	14	M12
20	130	90	22	58	2	4	18	M16
25	140	100	24	68	2	4	18	M16
32	155	110	24	75	3	4	22	M20
40	170	125	28	88	3	4	22	M20
50	195	145	30	102	3	4	26	M24
65	220	170	34	122	3	8	26	M24
80	230	180	36	138	3	8	26	M24
100	265	210	40	162	3	8	30	M27
125	315	250	40	188	3	8	33	M30
150	355	290	44	218	3	12	33	M30
200	430	360	52	285	3	12	36	M33
250	505	430	60	345	3	12	39	M36
300	585	500	68	410	4	16	42	M39
350	655	560	74	465	4	16	48	M45
400	715	620	78	535	4	16	48	M45



PN10~PN160

## PN160 Steel pipe flange

DN	Flange			Raised face		Bolt		
	D	k	b	d	f	Number	d2	Size
10	100	70	20	40	2	4	14	M12
15	102	75	20	45	2	4	14	M12
25	140	100	24	68	2	4	18	M16
40	170	125	28	88	3	4	22	M20
50	195	145	30	102	3	4	26	M24
65	220	170	34	122	3	8	26	M24
80	230	180	36	138	3	8	26	M24
100	265	210	40	162	3	8	30	M27
125	315	250	44	188	3	8	33	M30
150	355	290	50	218	3	12	33	M30
200	430	360	60	285	3	12	36	M33
250	515	430	68	345	3	12	42	M39
300	585	500	78	410	4	16	42	M39



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